

Cellular Transformers

Abstract

The winding of matrix transformers having multiple turn primary windings is made much easier, and the resulting transformer is much more consistent, if a "cellular" insert having a plurality of through holes is placed through each trough hole of the matrix transformer. Preferably, there is one hole in the cellular insert for each wire, though two or more wires can be placed in each hole. In one embodiment, insulating cellular inserts are placed through the entire length of the cellular transformer to guide and locate the primary windings. In another embodiment, each element of the cellular transformer has cellular inserts, and the elements are coupled together. In another embodiment, the cellular insert is a conductor and is part of the secondary circuit.